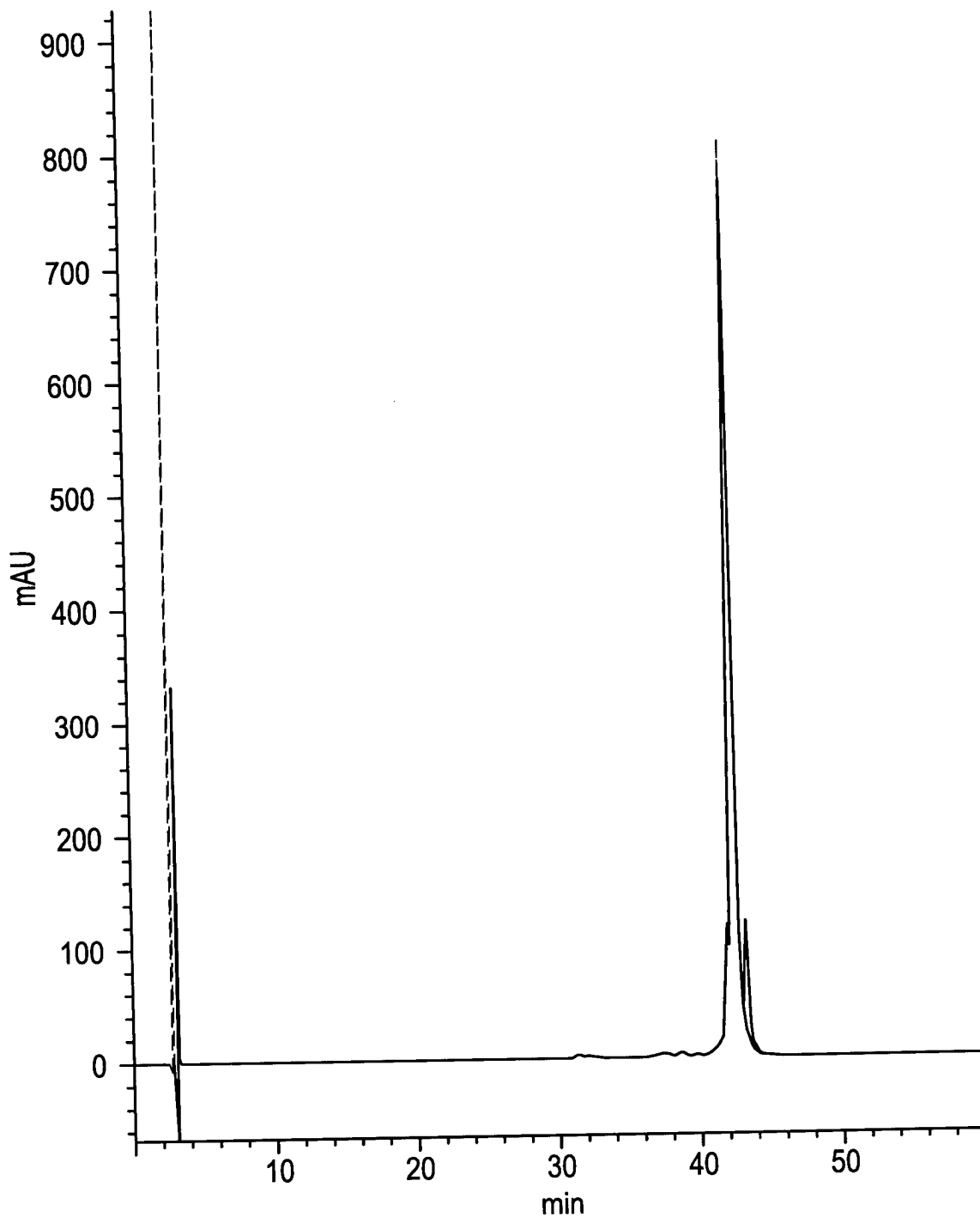
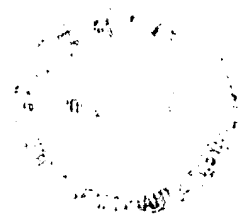


# FIG. 1

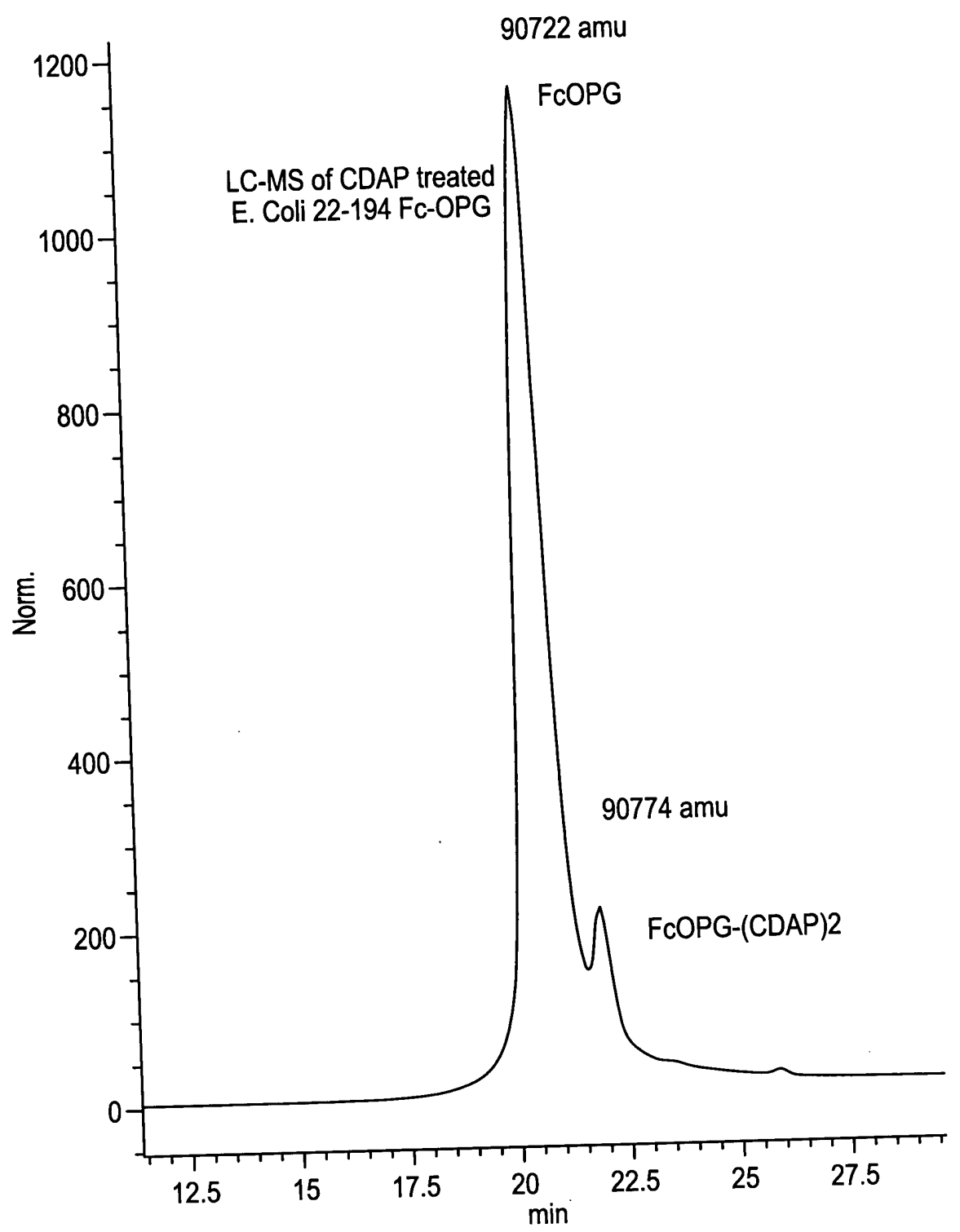
Standard Ecoli FcOPG Vs Ecoli FcOPG+10mM Cu



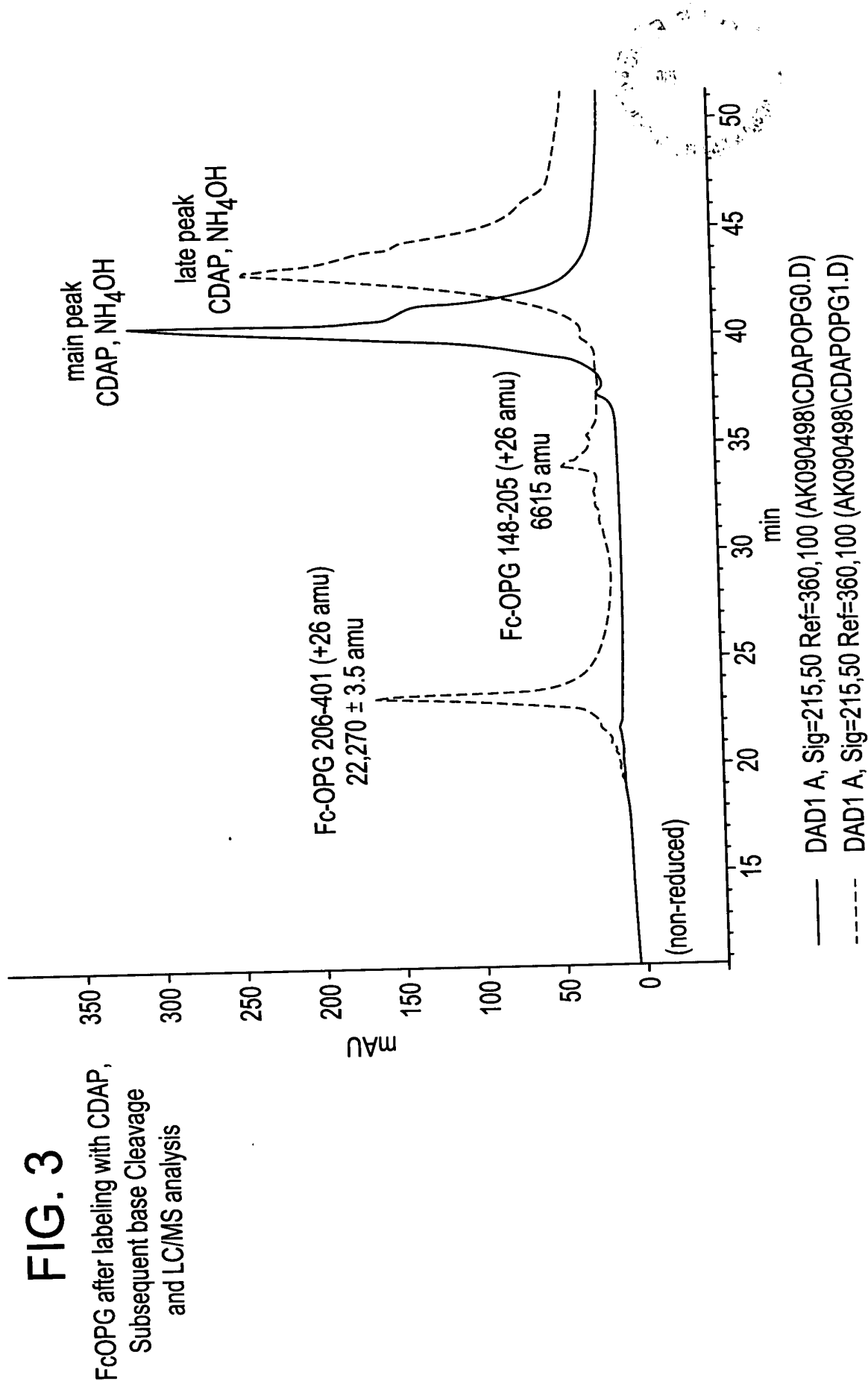
— DAD1 A, Sig=215,4 Ref=550,40 of SO031998\000-1301.D  
--- DAD1 A, Sig=215,4 Ref=550,40 of SO031998\002-0301.D



**FIG. 2**  
FcOPG after Labeling with CDAP

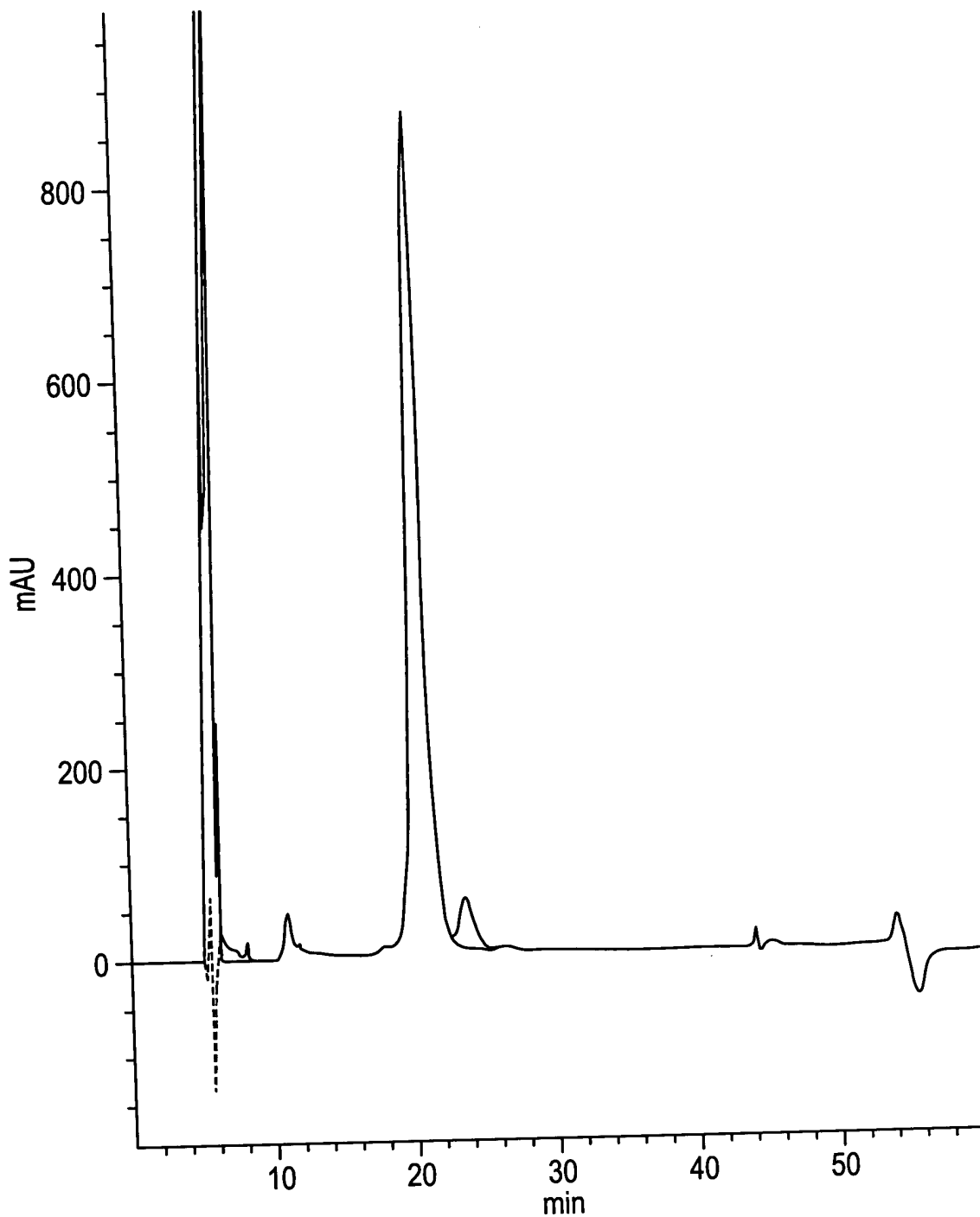


— DAD1 A, Sig=215,50 Ref=360,100 (AKD81598\FCOPG001.D)



## FIG. 4

CHO-OPG-Fc Vs CHO-OPG-Fc + 30mM CuCl<sub>2</sub>



— DAD1 A, sig=215,4 Ref=550,40 of CHOOPCU3\002-0401.D  
- - - DAD1 A, sig=215,4 Ref=550,40 of CHOOPCU3\000-0201.D

## FIG. 5A

ATGGACAAAACTCACACATGTCCACCTTGTCAGCTCCGGAACCTCTGGGGGGACCGTCA  
1 -----+-----+-----+-----+-----+ 60  
TACCTGTTTTGAGTGTGTACAGGTGGAACAGGTCGAGGCCTTGAGGACCCCTGGCAGT

a M D K T H T C P P C P A P E L L G G P S -  
GTCTTCCTCTTCCCCCAAACCCAAGGACACCCTCATGATCTCCCGGACCCCTGAGGTC  
61 -----+-----+-----+-----+-----+ 120  
CAGAAGGAGAAGGGGGGTTTTGGGTTCCTGTGGGAGTACTAGAGGGCCTGGGGACTCCAG

a V F L F P P K P K D T L M I S R T P E V -  
ACATGCGTGGTGGTGGACGTGAGCCACGAAGACCCTGAGGTCAAGTTCAACTGGTACGTG  
121 -----+-----+-----+-----+-----+ 180  
TGTACGCACCACCACCTGCACTCGGTGCTTCTGGGACTCCAGTTCAAGTTGACCATGCAC

a T C V V V D V S H E D P E V K F N W Y V -  
GACGGCGTGAGGTGCATAATGCCAAGACAAAGCCGCGGGAGGAGCAGTACAACAGCACG  
181 -----+-----+-----+-----+-----+ 240  
CTGCCGCACCTCCACGTATTACGGTTCTGTTTCGGCGCCCTCCTCGTCATGTTGTCGTGC

a D G V E V H N A K T K P R E E Q Y N S T -  
TACCGTGTGGTCAGCGTCCTCACCGTCCTGCACCAGGACTGGCTGAATGGCAAGGAGTAC  
241 -----+-----+-----+-----+-----+ 300  
ATGGCACACCAGTCGCAGGAGTGGCAGGACGTGGTCCTGACCGACTTACCGTTCCTCATG

a Y R V V S V L T V L H Q D W L N G K E Y -  
AAGTGCAAGGTCTCCAACAAAGCCCTCCCAGCCCCATCGAGAAAACCATCTCCAAGCC  
301 -----+-----+-----+-----+-----+ 360  
TTCACGTTCCAGAGGTTGTTTCGGGAGGGTCCGGGGTAGCTCTTTTGGTAGAGGTTTCGG

a K C K V S N K A L P A P I E K T I S K A -  
AAAGGGCAGCCCCGAGAACCACAGGTGTACACCCTGCCCCATCCCGGGATGAGCTGACC  
361 -----+-----+-----+-----+-----+ 420  
TTTCCCGTCGGGGCTCTTGGTGTCCACATGTGGGACGGGGGTAGGGCCCTACTCGACTGG

a K G Q P R E P Q V Y T L P P S R D E L T -  
AAGAACCAGGTCAGCCTGACCTGCCTGGTCAAAGGCTTCTATCCCAGCGACATCGCCGTG  
421 -----+-----+-----+-----+-----+ 480  
TTCTTGGTCCAGTCGGACTGGACGGACAGTTTCCGAAGATAGGGTCGCTGTAGCGGCAC

a K N Q V S L T C L V K G F Y P S D I A V -  
GAGTGGGAGAGCAATGGGCAGCCGGAGAACAACACTACAAGACCACGCCTCCCGTGCTGGAC  
481 -----+-----+-----+-----+-----+ 540  
CTCACCTCTCGTTACCCGTCGGCCTCTTGTGATGTTCTGGTGCGGAGGGCACGACCTG

a E W E S N G Q P E N N Y K T T P P V L D -  
TCCGACGGCTCCTTCTTCTCTACAGCAAGCTCACCGTGGACAAGAGCAGGTGGCAGCAG  
541 -----+-----+-----+-----+-----+ 600  
AGGCTGCCGAGGAAGAAGGAGATGTCGTTTCGAGTGGCACCTGTTCTCGTCCACCGTCGTC

## FIG. 5B

a S D G S F F L Y S K L T V D K S R W Q Q -

GGGAACGTCTTCTCATGCTCCGTGATGCATGAGGCTCTGCACAACCACTACACGCAGAAG  
601 -----+-----+-----+-----+-----+ 660

CCCTTGCAGAAGAGTACGAGGCACTACGTACTCCGAGACGTGTTGGTGATGTGCGTCTTC

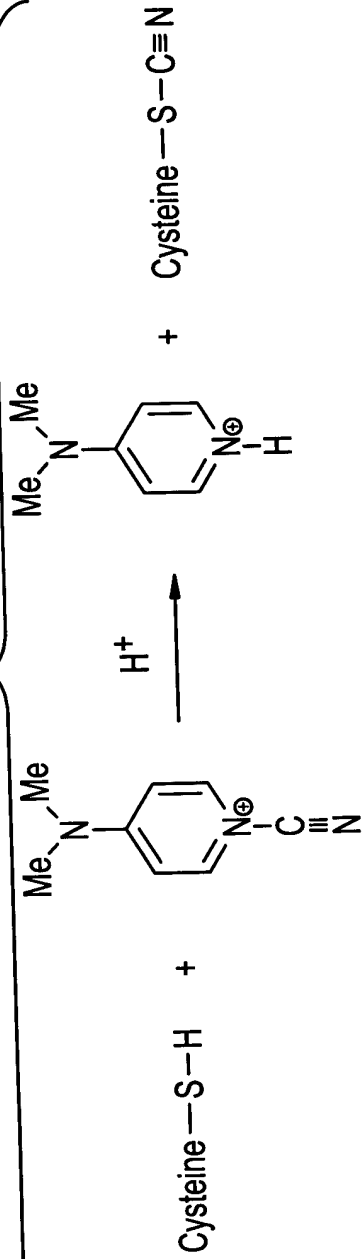
a G N V F S C S V M H E A L H N H Y T Q K -

AGCCTCTCCCTGTCTCCGGGTAAA  
661 -----+-----+----- 684

TCGGAGAGGGACAGAGGCCCATTT

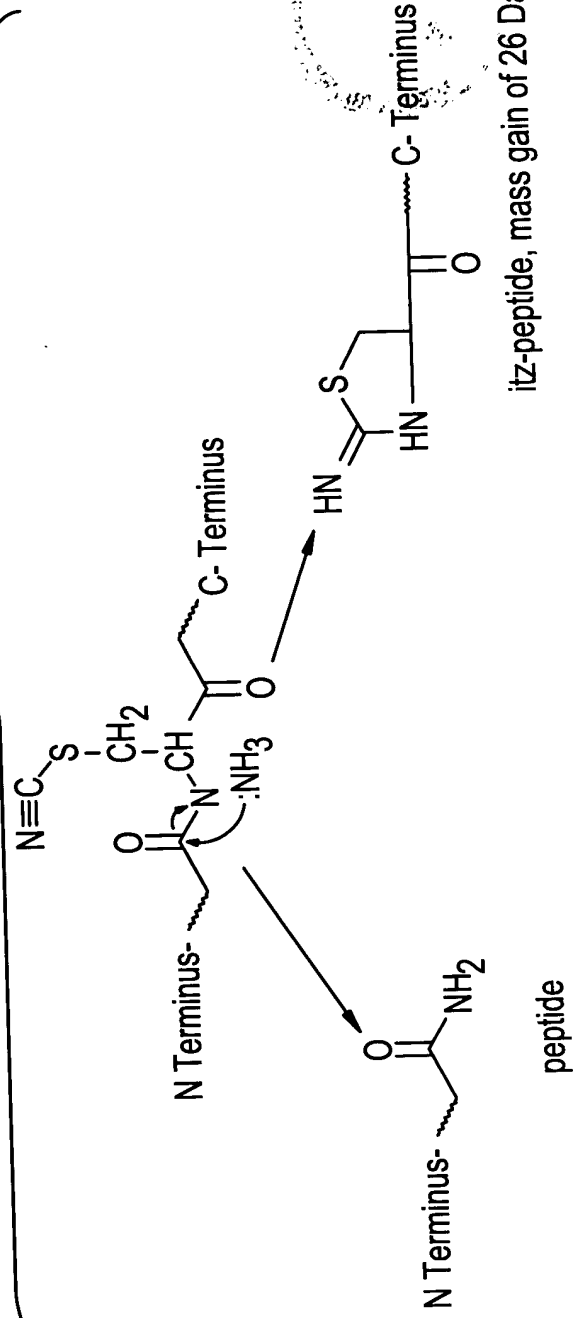
a S L S L S P G K

FIG. 6



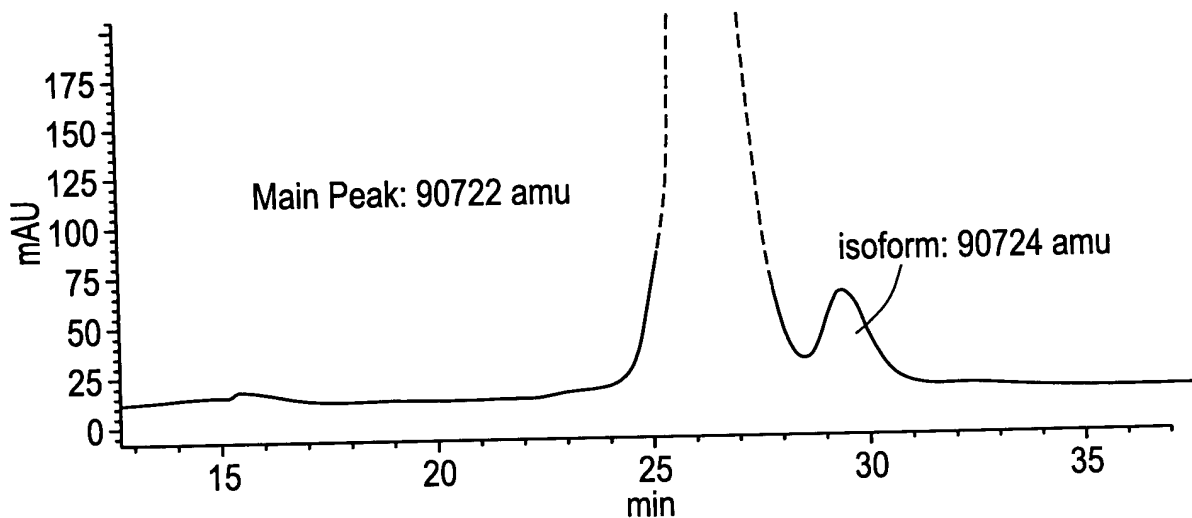
5

FIG. 7



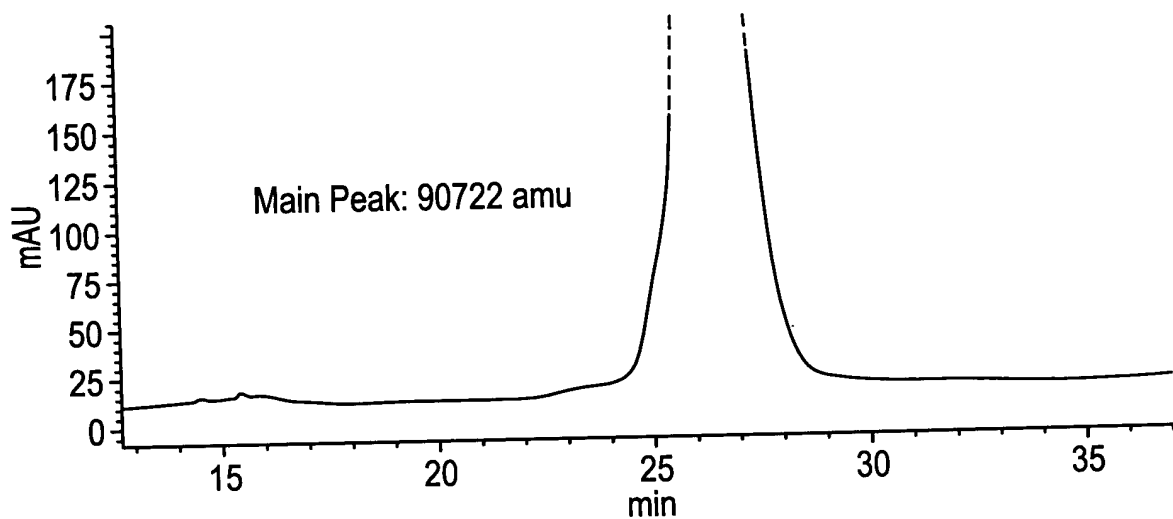
5

FIG. 8A



DAD1 A, Sig=215,4 Ref=550,40 (CO012199\047-0101.D)

FIG. 8B

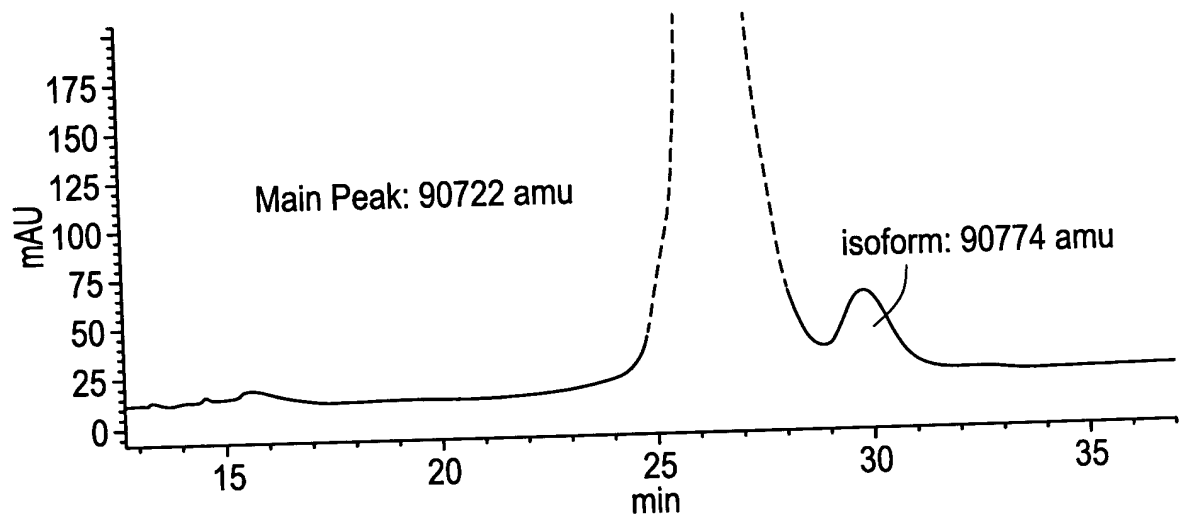


DAD1 A, Sig=215,4 Ref=550,40 (CO012199\048-0201.D)



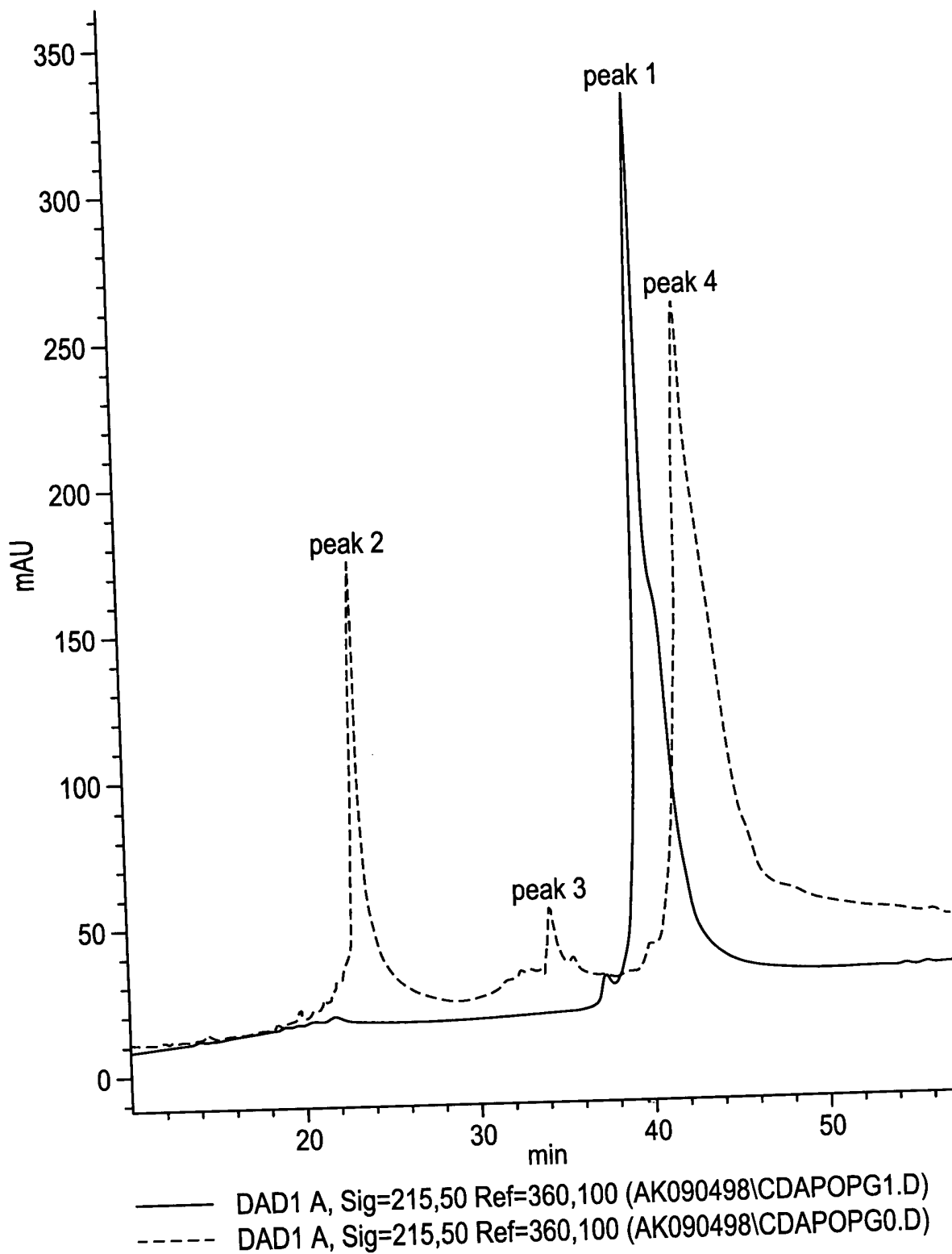


FIG. 8C

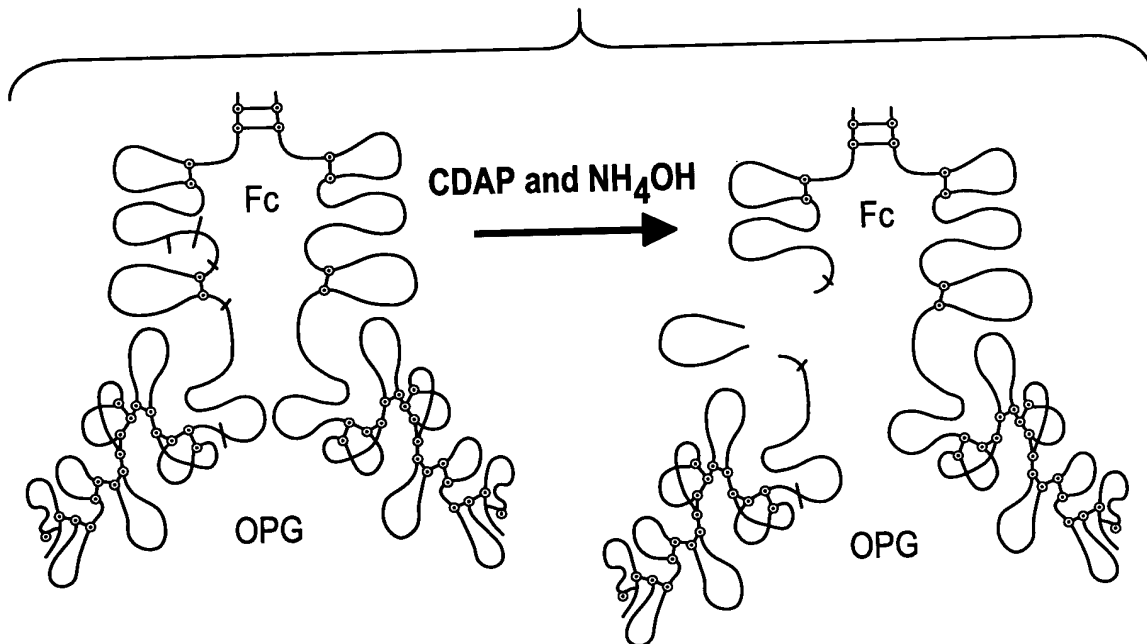


DAD1 A, Sig=215,4 Ref=550,40 (CO012199\049-0301.D)

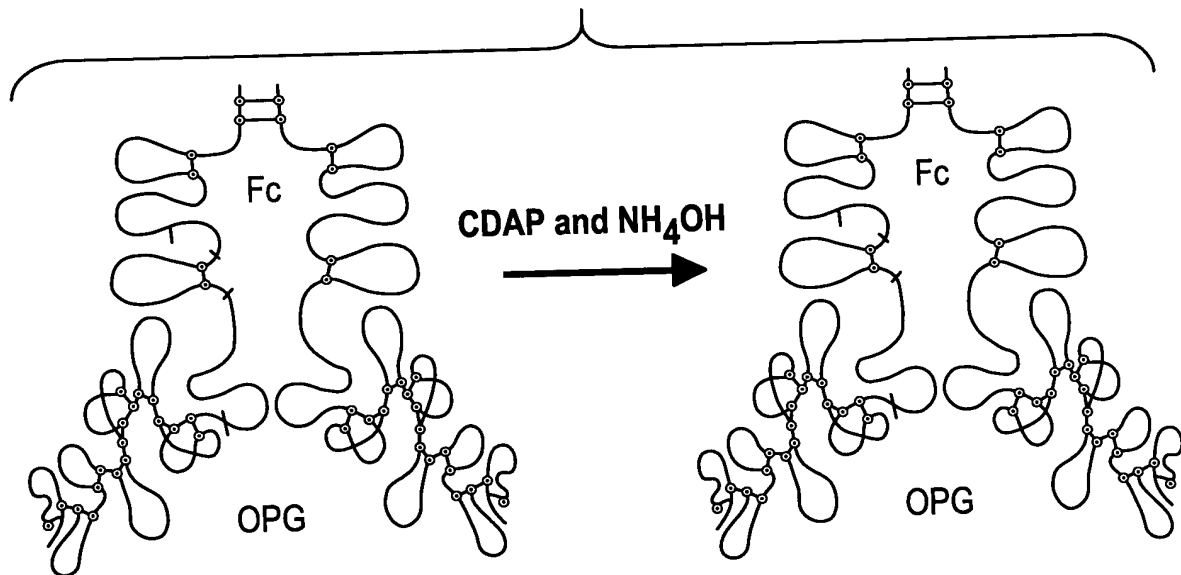
FIG. 9



**FIG. 10A**  
Reversed-phase isoform

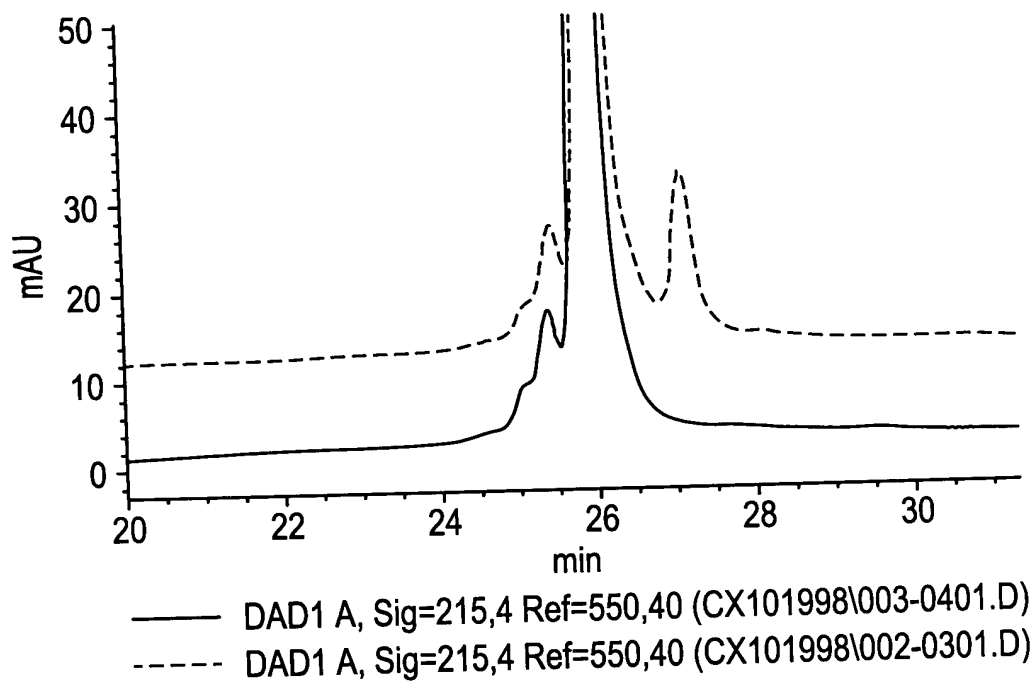


**FIG. 10B**  
Reversed-phase main peak



## FIG. 11

Reversed-phase HPLC of untreated (upper trace)  
and copper treated (lower trace) FcOPG.



## FIG. 12

Size-exclusion HPLC of FcOPG after 2 years incubation at 29°C;  
copper treated FcOPG (lower trace) and untreated FcOPG (upper trace).

